

Nomin Nomin Nomina	até C Photopic ale D65 ale A ale C Scotopic le Blue Light	TRANS 7.92% 7.92% 7.44% 9.79% 6.84% 0.00% 0.00%	X 0.2698	y 0.3023	3	TRANS TEST X Y Z	. Red 5.82% Fail 0.83	Yellow 6.90% Fail 6.00 4.72 0.02 0.5589	Green 8.55% Fail 0.93 1.85 2.21 0.1869	
um	%T		វាពា	%T	•	y Ch'''		0.4396	0.3708	0.3148
300	0.00		550	8.16		Chromitic	Σtγ	Pass	Pass	Pass
310	0.00		560	7.98		This is a				
320	0.00	-	570	7.68		i una ra a	SPECIAL	PURPOSE	LENS	
330	0.00		580	7.14		CEN 84				
340	0.00		590	6.64		CENT				
350	0.00		600	6.27		TRANS	Red	Yellow	Green	Blue
360	0.00		610	5.96		O .	5.98%	6.88%	8.54%	9.13%
370 380	0.00		620	5.73		TEST	0.75	0.87	1.08	1.15
390	0.00		630 °	5.57	٠.	1231	Feil	Pasa	Pass	Pass
400	0.00		640	5.58		_				
410	0.06		650	5.78		•				
420	0.93		660	6.11						
430	3.05		670	6.51		This is a	FII TED CA	TEGORY 4		
440	5.26 7.77		680	6.96		***************************************	· icien C	Max		
450	10.05		690	7.40		T(280-315)	1	0.00	Test	Delta
460	11.74		700	7.82		T(318-350)		0.00	Pass	0.79
470	12.76	·	710	8.28		SOLAR UV		0.00	Pass	3.96
480	13.30		720	8.72				0.00	Pass	3.96
490	13.27		730	9.17	•	AUSTRALL	AN STANDA	APne		
500	8.06		740	9.67			Red	Violet		
510	8.49		750	10.15		FACTOR	0.73	0.93		•
520	8.88		760	10.63		This is a	SPECIFIC	0.00		
530	8.75		770	11.10			FAIL	FAIL		
540	8.40		780 790	11.50 11.83	•				_	

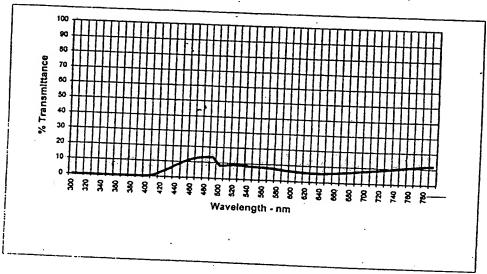


FIG. 2

& Definition - ANSI Z87.1

COLTS Control Number: **Z-BZS031601-02-01**

	eampies	Sample Grou	Material)		Coatings (Hard Coat, AR, etc		
One Lens Sample Group		Lens Material:	unk	Type:	Polarized		
Manufacturer:	Bayz	Index of Refraction:		Comments:			
Lens Type:	FSV	Lens Density:		00111111	ens.		
Requested By:	DR. Ishak	Report valid thru:	09/16/01	Polarized / Grey			

Test Number	Definition	Pass/Fail
Z-BZS031601-02-01-01	28	
Z-BZ\$031601-02-01-02	34	Pass
Z-BZS031601-02-01-03	34	Pass
	34	Pass

ANSI Z87.1 Requirement Pattern 20 in both directions

FIG. 2A

		TRANS	×	y	ANSI Z80.3			
	e C Photopic	9.91%	0.2685	0.3050	F	Red Yellow	Green	D65
lh minat		9.91%			TRANS 7.	43% 8.52%	10.79%	9.919
lluminat		9.27%			TEST F	ail Pass	Pass	
	e C Scotopic	12.34%			X	7.41	1.16	8.92
-	Blue Light	8.46%				.81 5.83	2.34	10.4
UVA		0.00%			Z	0.02	2.75	
U'VB		0.00%		<i>.</i> *	×	0,5590	0.1854	0.270
				•	у	0.4394	0.3741	0.317
nm	%T		nm	%T	Chromiticity	Pass	Pass	Pasa
300	0.00		550	10.27	•			. 650
310	0.00		560	9.98	This is a GEN	ERAL PURPOSE	IENS	
320	0.00		570	9.46				
330	0.00	•	580	8.67	CEN 84			——
340	0.00		590	8.01	Red	Yellow	Green	Blue
350	0.00		600	7.56		9% 8.50%	10.78%	11.649
3 6 0	0.00		610	7.19		75 0.86	1.09	
370	0.00		820	6.88		eil Pass	. Pass	1.17
380	0.00		630	6.75		DH F#33	rass	Pass
390	0.00		640	7.02				
400	0.05		650	7.68				
10	0.95		660	8.53				
120	3.41		670	9.38	This is a FILTE	R CATEGORY 3	,	
30	6.13		680	10.17	1110100 11210	Max	Test	Delta
140	9.33		690	10.82	T(280-315)	0.00	Pass	0.99
50	12.37		700	11.37	T(318-350)	0.00	Pass	4.96
60	14.65		710	11.90	SOLAR UVA	0.00	Pass	4.96
70	16.06		720	12.38		0.00	F 833	4.80
80	16.74		730	12.87	AUSTRALIAN ST	ANDARDS		
90	16.69		740	13.37	Re			
00	10.41		750	13.84	FACTOR 0.7			
10	10.92		760	14.31		RAL PURPOSE	SUNCL ACC	
20	11.36		770	14.77	FAI		JUNGUASS	
30	11.13		780	15.15	170	- 1700		
40	10.82		790	15.47				

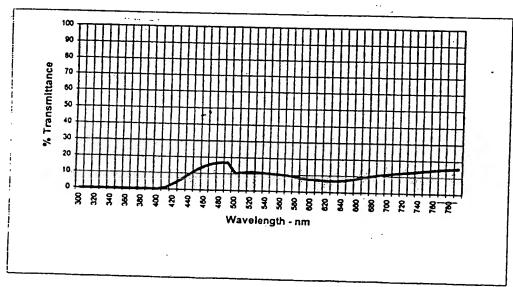
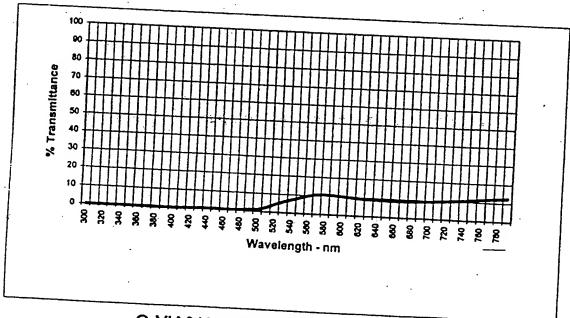


FIG. 3

llumir Ilumin Ilumin	nate C Photopic nate 065 nate A sate C Scotopic ge Blue Light	TRANS 7.66% 7.61% 8.52% 2.96% 0.34% 0.00%	x 0.4803	y 0.4827	ANSI TRAN TEST X Y Z	Re	9.79% il Fail 9.11	Green 6.31% Fail 0.75 1.37 0.13	
υm	e/ +				х У		0.5758	0.3352	0.4778
300	%T		nm	%T- ²	Chromi	ticitu	0.4232	0.6063	0.4868
310	0.00		550	8.54		ou.y	Pass	Pass	Pass
320	0.00		560	9.83	This is a	5050	AL DUDDOSS		
330	0.00		570	10.59		- 5/202	AL PURPOSE	LENS	
340	0.00		580	10.73	CEN 94		. `		
350	0.00		590	10.49	02.104	Red			
360	0.00		600	10.15	TRANS		Yellow	Green	Blue
370	0.00		610	9.77	Q	9.579		6.31%	4.38%
380	0.00		620	9.46	TEST	1.26 Pass	1.20	0.83	0.58
390	0.00		630	9.20		Fa55	Pass	Pass	Fail
400	0.01		640	9.00					
410	0.11		650	8.87					
420	0.30		660	8.83					
430	0.37		670	8.86	This is a	Eli TED	CATEGORY		
440	0.38		680	8.98		· ICIER	CATEGORY 4		
450	0.36		690	9.15	T(280-31	51	Max	Test	Deita
460	0.35		700	9.38	T(316-35		0.00	Pass ·	0.76
470	0.36		710	9.68	SOLARU		0.00	Pass	3.81
480	0.36 0.48		720	10.01	-	<u> </u>	0.00	Pass	3.81
490	0.88		730	10.37	AUSTRAL	1411 07			
500	1.09		740	10.77	AUSTRAL	.IAN STAN			
510	2.33		750	11.17	FACTOR	Red	Violet		
520	4.19		760	11.56	This is a	1.20 SPECIFIC	0.04		
530	5.87		770	11.97		FAIL			
540	7.23		780	12.31		FAIL	FAIL	•	
-	1.23	7	790	12.58					



O-VIA012901-04-01 (Amber Mirror)

For Test: Definition - ANSI 287.1

Lens	Samples Sample Group	Substrate (Len	s Material	Piption Coatings (Hard Coat, AR, etc.)
Manufacturer:			unk	Type: Polarized
		Index of Refraction:		Comments:
ens Type:		Lens Density:		
Requested By:	DR. Ishak	Report valid thru:	09/16/01	Polarized / Amber

Test Number	Definition	Dane (Fail
Z-BZS031601-01-01-01	20	Pass
Z-BZS031601-01-01-02	34	Pass
Z-BZS031601-01-01-03	34	
		Pass

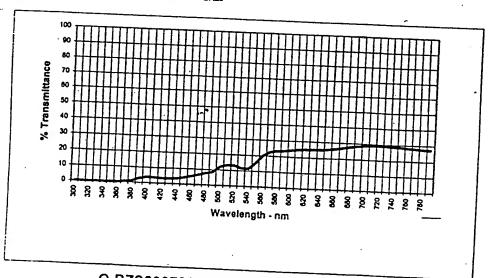
ANSI Z87.1 Requirement
Pattern 20 in both directions

FIG. 4A

								-7	
		TRANS	×	. у	ANSI Z8	1 2			
	te C Photopic	9.91%	0.4766	0.4822	7451 25		V-H		
llumina	te 065	9.85%			TRANS	11.76%	Yellow 12.56%	Green	D65
	ite C Scotopic	10.99%			TEST	Pass	12.30% Pess	8.24%	9.85%
Averso	e Blue Light	3.94%			X		11.87	Pass 0.97	
UVA	o once cryst	0.51%			Y	1.28	8.58	1.78	10.15
UVB		0.00%			Z		0.02	0.19	10.41
•••		0.00%		₫	×		0.5758	0.13	0.84
nm	%T				y		0.4233	0.6054	0.4742
300	0.00		nm	%T	Chromitici	ty	Pass	Pass	0.4883
310 :-	0.00		550	11.10					Pass
320	0.00		560	12.64	This is a	GENERAL	PURPOSE	LENS	
330	0.00		570	13.52					
340	0.00		580	13.86	CEN 94				
350	0.00		590 600	13.37		Red	Yellow	Green	Blue
360	0.00		610	12.96	TRANS	12.27%	12.52%	8.25%	5.77%
370	0.00		620	12.52	Q	1.25	1.27	0.84	0.59
380	0.00		630	12.15	TEST	Pass	Pass	Pass	Fail
390	0.00		640	11.83					. 441
400	0.01		650	11.60 11.45					
410	0.17		660	11.45					
420	0.44		670	11.43	-				
430	0.55		680	11.55	This is a	FILTER CA	TEGORY 3		
440	0.55		690	11.75	. 7/202 24-		Max	Test	Delta
450	0.53		700	11.99	T(280-315)		0.00	Pass	0.98
480	0.52	$(x_{2},\dots,x_{n})\in \Psi_{n}(x_{n})$	710	12.31	T(316-350)		0.00	Pass	4.92
470	0.53		720	12.66	SOLAR UV	<u> </u>	0.00	Pass	4.92
480	0.72		730	13.04	AUSTRALIA				
490 500	1.28		740	13.45	, NOSTRALIA				
510	1.52		750	13.84	FACTOR	Red 1.19	Violet	•	
520	3.20		780	14.23			0.05		
530	5.63		770	14.62		FAIL	URPOSE S	UNGLASS	
540	· 7.81		780	14.92		1746	FAIL		
540	9.52		790	15.16			_		
			•			•	_	-	. •
l	100								
	90	11111		$\Pi\Pi\Pi\Pi$					
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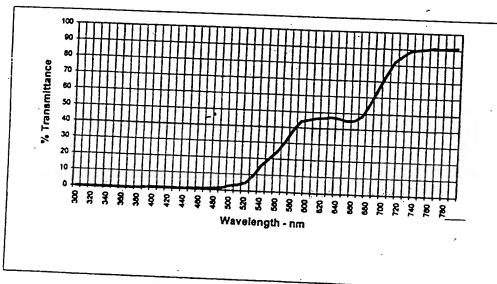
FIG. 5

Ilumin Ilumin Ilumin	ate C Photopic ste D65 ste A ste C Scotopic se Blue Light	TRANS 17.80% 17.68% 19.69% 10.41% 4.90% 0.00%	. x 0.4369	y 0.4180		ANSI ZE TRANS TEST X Y Z	0.3 Red 25.38% Pasa 2.76	Pass 22.21 15.27 0.03	14.76% Pass 1.72 3.20 1.30	
nm	%T		nn n	%T	<i>3</i> ′	y		0.5920 0.4072	0.2768 0.5137	0.4367 0.4244
300	0.00		550	15.34	•	Chromitic	ity	Pass	Pass	Pass
310	0.00		560	20.06						
320	0.00		570	22.41		This is a	GENERAL	PURPOSE	LENS	
330	0.00		580	23.37		051101				
340	0.00		590	23.60		CEN 84	_			
350	0.00	•	600	24.11		TRANS	Red	Yellow	Green	Blue
360	0.12		610	24.62		0	24.83%	22.41%	14.83%	13.53%
370 380	0.63		620	24.90		TEST	1.40	1.27	0.83	0.77
390	1.07		630	25.05		1231	Pass	Pass .	Pass	Fail
400	2.81		640	25.13						
410	3.78		650	25.42						
420	3.61		660	25.98						
430	3.28 3.23		670	26.75		This is a	Ell TED OA	T-00		
440	3.23		680	27.67			FILTER CA			
450	4.19		690	26.37		T(280-315)		Max	Test	Delta
460	5.26		700	28.82		T(316-350)		0.00	Pess	1.77
470	6.45		710	29.03		SOLAR UV		0.00 0.00	Pass ·	5.84
480	7.58		720	29.05				0.00	Pass	8.84
490	8.57		730	28.95		AUSTRALL	W STANDA	DUG .		
500	12.08		740	28.74			Red	Violet		
510	13.35		750	28.49		FACTOR	1.42	0.24		
520	13,17		760	28.20			GENERAL P	URPOSE S	INCI ACO	•
530	11.59		770	27.83			PASS	FAIL	UNG DASS	
540	11.46		780 790	27.54 27.25			•			



O-BZS030701-01-01 (Ray Ban Daddy O)

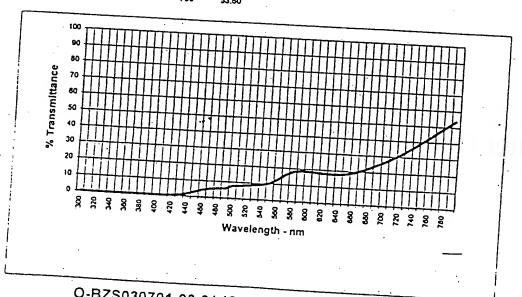
llumini Ilumini Ilumini	ate C Photopic ate D65 ate A ate C Scotopic be Blue Light	TRANS 24.30% 23.97% 29.70% 6.40% 0.85% 0.01% 0.00%	x· 0.5425	y 0.4364	•	ANSI ZE TRANS TEST X Y Z	80.3 Red 47.16% Pass 5.13	Yellow 37.12% Pass 39.24 25.37 0.04 0.6069	Green 15.31% Pass 2.32 3.32 0.26	23.97% 31.29 25.33 1.18
nm	%T				2,	y		0.3924	0.3938 0.5620	0.5414 0.4382
300	0.00		nm Eso	- %T		Chromitic	άtγ	Pass	Pass	Pass
310	0.00		550 560	20.05						
320	0.00		570	24.55		This is a	GENERAL	PURPOSE	LENS	
330	0.01		580	30.48						
340	0.02		590	38.21		CEN 94				
350	0.02		600	43.80		•	Red	Yellow	Green	Blue
360	0.02		610	44.90		TRANS	46.19%	37.35%	14.95%	12.84%
370	0.04		620	46.00		Q	1.93	1.56	0.62	0.54
380	0.18		630	46.28		TEST	Pass	Pass	Fail	Fail
390	0.44		640	47.00 46.23						1 011
400	0.70		650	44.91						
410	0.62		660	45.28						
420	0.50		670	48.40						
430	0.51		680	55.47		This is a	FILTER CA	TEGORY 2		
440	0.57		690	64.74				Max	Test	Delta
450	0.73		700	73.63		T(280-315)		0.00	Pass	2.40
180	0.89		710	81.96		T(316-350)		0.00	Pass	11.98
170	0.98		720	85.52		SOLAR UV	A	0.00	Pass	11.98
180	1.12		730	88.63						
90	1.62		740	89.54		AUSTRALI	an Standa	RDS		
00	2.88		750	90.08			Red	Violet	•	
10	3.40		760	90.94		FACTOR	1.93	0.03		
20	4.76		770	90.55		This is a	GENERAL P	URPOSE S	UNGLASS	
30	9.19		780	91.03			PASS	FAIL		
40	15.54		790	91.27						



O-BZS030701-02-01 (BluBlocker 1870)

FIG. 7

llumii Ilumii Ilumir	nate C Photopic nate 065 nate A nate C Scotopic ge Blue Light	TRANS 12.83% 12.74% 14.34% 7.18% 2.58% 0.00%	х 0.446	• ,	ANSI Z TRANS TEST X Y Z	R S 18.4	23	Yellow 16.40% Pass 16.43 11.21 0.02	10.379 Pass 1.25 2.25	
	•	0.007			, x		0).5939	0.91	4.06
nm	%T		Πm	• %T	y			.4053	0.2836	0.4459
300	0.00		550		Chromiti	icity		Pass	Pass	0.4258
310	0.00		560	10.46	•				. 422	Pass
320	0.00		570	12.93	This is a	GENER	RAL PUR	POSE	LENC	٠ .
330	0.00		580	15.91				002	CC42	
340	0.00	. •	590	18.08	CEN 94					
350	0.00	•	600	18.56		Red	Yello		Green	
360	0.00		610	18,50	TRANS	18.369		47%		Blue
370	9.00		620	15.16	Q	1.44		.29	10.26% 0.81	9,58%
380	0.00		630	17.89	TEST	Pass	P	225	Pass	0.75
390	0.00		640	17.72 17.78			•		C922	Fail
400	0.00		650							
410	0.04		660	18.26						
420	0.23		570	19.25			•			
430	0.66		380	20.68	This is a	FILTER C	ATEGO	BY 1		
440	1.63		90	22.51			Ma		- 1.	
450	3.07		00	24.44 26:52	T(280-315)		0.0		Test	Delta
460 .	4.48		10	28.97	T(316-350)		0.0	-	Pass Pass	1.27
470	5.36		20		SOLAR UV	A	0.0	-	Pass	6.37
480	5.72 .		30.	31,41					L 833	6:37
490	5.89		10	34.13	AUSTRALIA	W STANC	ARDS			
500	7.66	75	-	37.26		Red	Viole	.,		
510	7.93	76		40.38	FACTOR	1.42	0.18			
520	8.32	77	_	43.65	This is a	ENERAL	PURPO	SE 91"	UCI AGG	
530	8.77	780	_	47.20 50.50		PASS	FAIL	OC 301	NGCASS.	
540	9.30	790		\$0.53 \$3.50			1746			
		/30	•	53.60						

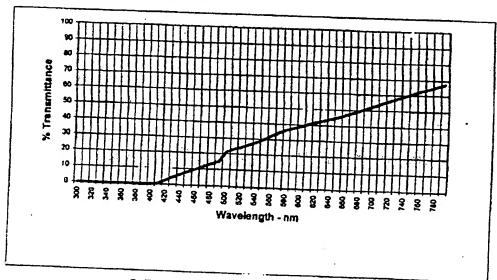


O-BZS030701-03-01 (Costa Del Mar Islamorada)

FIG. 8



ilumini Aumini	nte D65 ste A hte C Scotopic pe Blue Light	31.01% 33.83% 19.23% 6.83% 0.00%	0.4238	0.4257	TRANS TEST X Y Z	Red 44.08% Pass 4.80	Yellow 37,10% Pess 36,89 25,35 0.06 0.5921	Green 27.37% Pass 2.98 5.93 2.36 0.2646	065 31.01% 32.20 32.77 10.79 0.4250
nm.	*1		hm	% T	7		0.4069	0.5266	0.4325
300	0.00		560	30.04	Chromit	icity	Pass	Pass	Pass
310	0.00		560	32.33	•				
320	0.00		570	34.41	This is a	GENERA	PURPOSE	LENS	
330	0.00		580	36.23	CEN DA				
340	0.00		590	37.68	CEN 94				
350	0.00		800	39.03	TRANS	Rad	Yallow	Green	Blue
360	0.00		810	40.43	Q		37.21%	27.34%	25.06%
370	9.00		620	41.65		1.35	1.20	0.88	0.81
380	0.00		630	42.82	TEST	P263	Pass	Pass	Pass
390	0.00		640	43.97					
400	0.02		880	45.22					
410	0.58		860	46.70				•	
420	2.47		670	48.24	This is a				
430	4.45		660	49.95	110012.0	PILIER CA	TEGORY 2		
440	6.38		690	51.53	T(280-315	••	Max	Test	Deta
450	8.20		700	53.10	T(316-350		0.00	Pess	3.10
460	9.99		710	54.73	SOLAR U		0.00	P836	15.51
470	11.68		720	56.27	30000	<u> </u>	0.00	Pass	15.51
480	13,56		730	57.83	ALIOTOAL	44.14.00			
490	15.18		740	59.51	AUSTRAL	IAN STANO			
500	21.03		750	61.06	Flomo	Red	Violet		
510	23.04		760	62.73	FACTOR	1.40	0.20		
520	24.50		770	64.39	This is a	GENERAL I		UNCLASS	
530	26.19		780	86.01		PASS	FAIL		
540	28 02		200						



O-BZS030701-04-01 (Melavision)

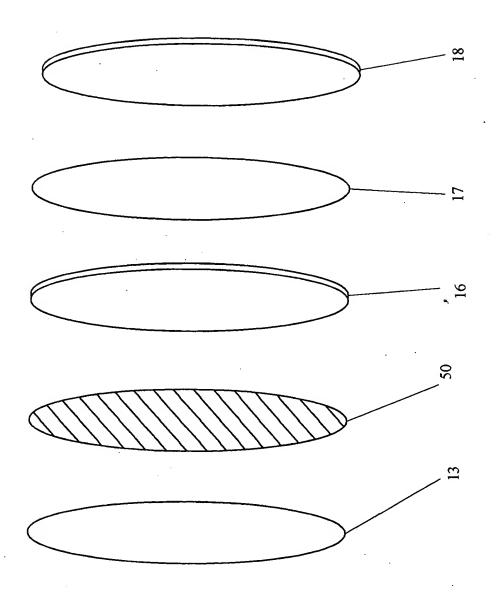


FIG. 10